# **Material Safety Data Sheet**

# SureFast® PREP DNA/RNA Virus Art. No. F1051

Version 4.0 - 2014/12





# CONGEN Art. No. F1051

# Safety Data Sheet in Accordance with regulation 453/2010

Page 1 of 6

Date of issue: 30.09.2014 Replaces Data Sheet of: 06.03.2013

"\*" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade Name: Extraction Tubes

Article No.: n.av.
Preparation No.: n.av.
Registration No.: n.ap.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use: Analytics, Diagnostics

1.3 Details of the supplier of the safety data sheet

1.3.1 Address of the Company / Supplier:

CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin

Telephone: +49-30-94 89-3500, Telefax: +49-30-94 89-3510, E-Mail: info@congen.de

1.3.2 Responsible for the data sheet:

CoSiChem AG, Ernst-Lemmer-Straße 27, D - 35041 Marburg, info@cosichem.de

1.4 Emergency telephone number

Emergency - Telephone of Company / Undertaking Information Centre Specialising in Symptoms of

Poisoning

Telephone: +49-30-94 89-3500 (8:00 – 16:00)

Telephone: +44 870 600 6266

# **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture

Classification and labelling according to Directive 1272/2008/EC:

Acute Tox 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic chronic 2, H411;

Classification and labelling according to Directive 1999/45/EC:

Harmful, R22; Irritant, R36/37/38; Dangerous for the environment, R51/53;

2.2 Label elements

Classification according to 1272/2008/EC: Yes.

Applicable Exemptions: Signal word(s): Warning

Component(s): Cetrimonium bromide, Ammonium chloride

Hazard pictogram(s):





## H - Phrases:

H302: Harmful if swallowed.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H411: Toxic to aquatic life with long lasting effects.

# P - Phrases:

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P262: Do not get in eyes, on skin, or on clothing. P273: Avoid release to the environment.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER/doctor/...

# Additional Markings:

EUH208: Contains Proteinase K . May produce an allergic reaction.

The above mentioned labelling is valid for distribution to industrial user.

2.3 Other hazards



Page 2 of 6

**Trade Name: Extraction Tubes** 

Company / Supplier: CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin Telephone: +49-30-94 89-3500, Date of issue: 30.09.2014 Replaces Data Sheet of: 06.03.2013

# SECTION 3: Composition/information on ingredients

## 3.1 Substances

**Dangerous Ingredients:** 

## 3.2 Mixtures

## **Chemical Characterisation:**

Mixture of special ingredients

**Dangerous Ingredients:** 

CAS - No. Index - No. EC - No. Material m% - range Symbol R / H - phrases 12125-02-9 017-014-00-8 235-186-4 Ammoniumchlorid 50 - 70% Xn; GHS07 WngR 22-36; H302 H319 57-09-0 200-311-3 Cetrimoniumbromid 10 - 25% Xn, N; GHS07 R 22-36/37/38n.av. 50/53 ; H302 H315 GHS09 H319 H335 H410 Xn; GHS07 R 36/37/38-42 ; H315 39450-01-6 647-014-00-9 Proteinase K 254-457-8 < 1% GHS08 H319 H335 H334

Text of R-/H- phrases: see section 16

## SECTION 4: First aid measures

## 4.1 Description of first aid measures

## 4.1.1 Inhalation:

Move to fresh air in case of accidental inhalation of vapours or decomposition products. If symptoms persist, call a physician.

### 4.1.2 Skin Contact:

Wash off immediately with plenty of water. Consult a physician.

## 4.1.3 Eye Contact:

Call a physician immediately. Rinse immediately with plenty of water, also under the eyelids.

# 4.1.4 Ingestion:

Call a physician immediately. Rinse mouth. Do not induce vomiting.

# 4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions and sensitization are possible.

# 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# SECTION 5: Firefighting measures

# 5.1 Extinguishing media

# 5.1.1 Suitable Extinguishing Media:

water spray jet, Foam, dry chemicals, CO2.

# 5.1.2 Extinguishing Media to Avoid:

None.

# 5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released: nitrogen oxides (NOx), Hydrogenchloride (HCI), Hydrogen bromide (HBr), Organic crackproducts and carbon oxides.

## 5.3 Advice for firefighters

# 5.3.1 Special Protective Equipment:

Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.

# 5.3.2 Additional Information:

The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## SECTION 6: Accidental release measures

# 6.1 Personal precautions, protective equipment and emergency procedures

See chapter 8.2.2

Avoid dust formation.

## 6.2 Environmental precautions

Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

# 6.3 Methods and material for containment and cleaning up

Take up with suitable absorbent material. Dispose of absorbed material in accordance with the regulations.

## 6.4 Reference to other sections

None.

Version 4.0

# Safety Data Sheet in Accordance with regulation 453/2010

Page 3 of 6

**Trade Name: Extraction Tubes** 

Company / Supplier: CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin Telephone: +49-30-94 89-3500, Date of issue: 30.09.2014 Replaces Data Sheet of: 06.03.2013

# SECTION 7: Handling and storage

- 7.1 Precautions for safe handling
- 7.1.1 Precautions for Safe Handling:

Avoid contact with eyes and skin. Take off contaminated, saturated clothing immediately. Do not inhale dust, gas, vapours, fire -fumes. Do not eat, drink or smoke during work.

- 7.1.2 Precautions in Case of Fire and Explosion:
  - No special measures necessary if used correctly.
- 7.2 Conditions for safe storage, including any incompatibilities
- 7.2.1 Storage Instructions:

Avoid subsoil penetration.

- 7.2.2 Store away from:
  - Store away from oxidising agents.
- 7.2.3 Further Information on Storage Conditions:

Recommended storage temperature: 20°C. Protect from warming up / overheating.

7.3 Specific end use(s)

n.av.

# SECTION 8: Exposure controls/personal protection

3.1 Control parameters

Material Limit Value

- 8.2 Exposure controls
- 8.2.1 Appropriate engineering controls

Avoid dust formation. Keep containers tightly closed in a cool, well-ventilated place.

- 8.2.2 Individual protection measures
- 8.2.2a **Respiratory Protection:** If ventilation is insufficient, wear respiratory protection
- 8.2.2b **Hand Protection:** Gloves (solvent-resistant) (Nitril; break through time > 6 h)

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts,

abrasion, and the contact time.

8.2.2c **Eye Protection:** tightly fitting goggles
8.2.2d **Skin Protection:** Light protective clothing
8.2.2e **Further Information:** Observe wearing time limits:

8.2.3 Environmental exposure controls:

n.av.

## SECTION 9: Physical and chemical properties

9.1	information on basic physical a	ina cnemicai properties
0 4 4		

9.1.1 Form: solid Colour: colourless Odour: characteristic

n.av.

Odour threshold: n.av.

9.1.2	pH-value, undiluted:	n.ap., pH-value, 1% aqueous solution: n.av.
9.1.3	Boiling point / Boiling - range (°C):	n.av., Melting point / Melting range (°C); n.av.

9.1.4 Flash point (°C): n.ap., closed cup

9.1.5 Flammability (EEC A10/A13): n.ap.
9.1.6 Ignition temperature (°C): n.ap.
9.1.7 Autoflammability (EEC A16): n.ap.
9.1.8 Oxidising properties: None.
9.1.9 Explosion hazard: n.av.

9.1.10 Explosion limits (Vol.%) lower: None., upper: None.

9.1.11 Vapour pressure: / Vapour density (Air = 1): n.av. / n.ap.

9.1.12 Density (g/ml): Bulk density: ~ 390

9.1.13 Solubility (in Water): 3 g / L
9.1.14 Partition coefficient, n-Octanol / Water: n.av.
9.1.15 Viscosity: n.av.
9.1.16 Solvent content (m %): n.ap.
9.1.17 Thermal decomposition (°C): ~250

9.2 Other information

Evaporation rate:

n.av.

9.1.18

Page 4 of 6

**Trade Name: Extraction Tubes** 

Company / Supplier: CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin Telephone: +49-30-94 89-3500, Date of issue: 30.09.2014 Replaces Data Sheet of: 06.03.2013

# SECTION 10: Stability and reactivity

10 1 Reactivity

None.

10.2 **Chemical stability** 

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Keep away from heat.

Incompatible materials 10.5

Reactions with strong oxidising agents.

10.6 Hazardous decomposition products

Stable at normal temperature. Decomposes on heating.

# SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

#### Substances: 11.1.1

n.ap.

#### 11.1.2 **Mixtures**

Acute Toxicity:

Inhalation: n.av.

ATEmix: 1285 Ingestion:

Skin Contact: n.av

Irritation / corrosion (to skin / eye): Causes skin irritation. Causes serious eye irritation. Sensitisation: May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

Carcinogenicity: n.av. Mutagenicity: n av Teratogenicity: n.av. Narcotic Effects: None.

# 11.1.3 - Practical Experience

11.1.12 n.av.

11.1.13 Practical Experience

Observations relevant for classification:

n.av

Further Observations:

None.

Classification of the preparation has been done by calculation in accordance with EEC directives.

# SECTION 12: Ecological information

Toxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Cetrimonium bromide:

LC50 (Danio rerio, 96h): 0,2 mg/l

EC<sub>50</sub> (Daphnia magna, 48h): 0,026 mg/l

12.2 Persistence and degradability

Not readily biodegradable.(Teil1)

12.3 Bioaccumulative potential

n.av.

12.4 Mobility in soil

n.av.

12.5 Results of PBT and vPvB assessment

This mixture contains no substances which are assessed to be PBT or vPvB.

12.6 Other adverse effects

12.6.1 COD-Value, mg/g: n.av. 12.6.2 BOD5-Value, mg/g: n.av. 12.6.3 AOX-Remarks: n av

Significant Components: 12.6.4 Cetrimonium bromide

Other adverse effects: 12.6.5 None.

Page 5 of 6

CON**GEN** 

**Trade Name: Extraction Tubes** 

Company / Supplier: CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin Telephone: +49-30-94 89-3500, Date of issue: 30.09.2014 Replaces Data Sheet of: 06.03.2013

# **SECTION 13: Disposal considerations**

13.1 Waste treatment methods

13.1.1 Recommendation: R 2 / D 10 Waste - Code - No.: 07 07 99

The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

In addition comply with the regional authorities.

13.2 **Contaminated Packaging** 

13.2.1 Recommendation: Wash with suitable cleaner. Packaging that cannot be cleaned should be disposed of as

for product

13.2.2 Safe Handling: Observe the usual precautionary measures for handling chemicals.

	ADR	IMDG	IATA	
	Exemption to ADR 3.5.1.4 (< 1mL / < 1g)			
14.1	UN number			
	3082	3082	3082	
14.2	UN proper shipping name			
	UN 3082 Environmentally hazadous substance, liquid, n.o.s. (Cetrimonium bromide)	Environmentally hazadous substance, liquid, n.o.s. (Cetrimonium bromide) & MARINE POLLUTANT	Environmentally hazadous substance, liquid, n.o.s. (Cetrimonium bromide)	
14.3	Transport hazard class(es)			
	9	9	9	
14.4	Packing group			
	III	III	III	
14.5	Environmental hazards			
		Yes.		
14.6	Special precautions for user			
	Transport category: 3 Classification Code: M6 Hazard - No.: 90 LQ: 5 L	F-A, S-F	Packing Instructions (Passenger) 964 Packing Instructions (Cargo) 964	
14.7	Transport in bulk according to Annex II		l .	

# SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

None.

Chemical safety assessment: 15.2 None.

Page 6 of 6

**Trade Name: Extraction Tubes** 

Company / Supplier: CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin Telephone: +49-30-94 89-3500, Date of issue: 30.09.2014 Replaces Data Sheet of: 06.03.2013

# **SECTION 16: Other information**

## Text of R / H phrases mentioned in Section 3

R 22: Harmful if swallowed.

R 36: Irritating to eyes.

R 36/37/38: Irritating to eyes, respiratory system and skin.

R 42: May cause sensitization by inhalation.

R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

H302: Harmful if swallowed.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335: May cause respiratory irritation.

H410: Very toxic to aquatic life with long lasting effects.

This datasheet has been compiled in accordance with EU regulation 453/201.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.



CoSiChem AG, Ernst-Lemmer-Straße 27, D - 35041 Marburg, info@cosichem.de, +49-6421-886563 Receipt of Data: 02.04.2009, inv\_0047\_c

**MSDS** 

# Safety Data Sheet in Accordance with regulation 453/2010

Page 1 of 5

Date of issue: 30.09.2014 Replaces Data Sheet of: 06.03.2013

"\*" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade Name: **Binding Buffer** 

Article No.: n.av. **Preparation No.:** n.av. Registration No.: n.ap.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use: Analytics, Diagnostics

1.3 Details of the supplier of the safety data sheet

Address of the Company / Supplier: 1.3.1

CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin

Telephone: +49-30-94 89-3500, Telefax: +49-30-94 89-3510, E-Mail: info@congen.de

1.3.2 Responsible for the data sheet:

CoSiChem AG, Ernst-Lemmer-Straße 27, D - 35041 Marburg, info@cosichem.de

1.4 **Emergency telephone number** 

> Emergency - Telephone of Company / Undertaking Information Centre Specialising in Symptoms of

Poisoning

Telephone: +49-30-94 89-3500 (8:00 - 16:00) Telephone: +44 870 600 6266

# **SECTION 2: Hazards identification**

Classification of the substance or mixture

Classification and labelling according to Directive 1272/2008/EC:

Flam. Lig. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336;

Classification and labelling according to Directive 1999/45/EC:

Highly flammable, R11; Irritant, R36; R67;

2.2 Label elements

Classification according to 1272/2008/EC: Yes.

Applicable Exemptions: Signal word(s): Danger

Component(s):

Hazard pictogram(s):





## H - Phrases:

H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

## P - Phrases:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233: Keep container tightly closed.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Additional Markings: None.

The above mentioned labelling is valid for distribution to industrial user.

2.3 Other hazards

Degreases skin. May cause skin and eye irritation. Materials should be tested for resistance.

This mixture contains no substances which are assessed to be PBT or vPvB.

# SECTION 3: Composition/information on ingredients

**Substances** 

**Dangerous Ingredients:** 

3.2 **Mixtures** 

**Chemical Characterisation:** 

Alcoholic solution

**Dangerous Ingredients:** 

CAS - No. Index - No. EC - No. m% - range Material Symbol R / H - phrases Propan-2-ol REACH\_01-F, Xi; GHS02 GHS07 Dgr R 11-36-67 ; H225 H319 H336 67-63-0 603-117-00-0 200-661-7 50 - 100%2119457558-25-xxxx

Text of R-/H- phrases: see section 16

Page 2 of 5

Trade Name: Binding Buffer

Company / Supplier: CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin Telephone: +49-30-94 89-3500, Date of issue: 30.09.2014 Replaces Data Sheet of: 06.03.2013

## SECTION 4: First aid measures

#### 4.1 Description of first aid measures

4.1.1 Inhalation:

> Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.

4.1.2 **Skin Contact:** 

Wash off with soap and water. If symptoms persist, call a physician.

4.1.3 **Eye Contact:** 

Call a physician immediately. Rinse immediately with plenty of water, also under the eyelids.

4.1.4 Ingestion:

Rinse mouth. Drink plenty of water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed Treat symptomatically.

# SECTION 5: Firefighting measures

Extinguishing media

Suitable Extinguishing Media: 5.1.1

water spray jet, Foam, dry chemicals, CO2.

**Extinguishing Media to Avoid:** 5.1.2

Special hazards arising from the substance or mixture 5.2

In the case of fire, the following product(s) may form: Carbon oxides.

Advice for firefighters 5.3

5.3.1 **Special Protective Equipment:** 

Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.

5.3.2 Additional Information:

None.

# SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

See chapter 8.2.2

Keep away from sources of ignition.

6.2 **Environmental precautions** 

Do not allow larger quantities to enter drainage. Inform responsible authorities in the case of accidental release of larger quantities.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material. Flush away residues with water.

6.4 Reference to other sections

None.

# SECTION 7: Handling and storage

7.1 Precautions for safe handling

7.1.1 **Precautions for Safe Handling:** 

Avoid contact with eyes and skin. Do not eat, drink or smoke during work. Take off contaminated, saturated clothing immediately. Do not inhale vapours.

7.1.2 Precautions in Case of Fire and Explosion:

Keep away from sources of ignition - No smoking. Vapours may form explosive mixture with air.

7.2 Conditions for safe storage, including any incompatibilities

7.2.1 Storage Instructions:

Floor must be resistant against solvents.

7.2.2 Store away from:

Store away from explosive substances and products. oxidising agents.

7.2.3 **Further Information on Storage Conditions:** 

Provide sufficient ventilation. Protect from sun. Protect from warming up / overheating.

7.3 Specific end use(s)

None.



Page 3 of 5

**Trade Name: Binding Buffer** 

Company / Supplier: CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin Telephone: +49-30-94 89-3500, Date of issue: 30.09.2014 Replaces Data Sheet of: 06.03.2013

# SECTION 8: Exposure controls/personal protection

8 1 Control parameters

Material **Limit Value** Propan-2-ol 200 ppm | 500 mg/m<sup>3</sup>

8.2 **Exposure controls** 

8.2.1 Appropriate engineering controls

Keep container tightly closed. Close container straight after use or if empty.

8.2.2 Individual protection measures

Respiratory Protection: If ventilation is insufficient, wear respiratory protection 8.2.2a

(Short term: filter apparatus, Filter A)

8.2.2b **Hand Protection:** In case of prolonged skin contact use protective gloves.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts,

abrasion, and the contact time.

8.2.2c **Eye Protection:** Goggles 8.2.2d **Skin Protection:** No.

8.2.2e Observe wearing time limits: **Further Information:** 

8.2.3 **Environmental exposure controls:** 

n.av.

# SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

9.1.1 Colour: colourless Odour: alcohol-like Form: liquid

Odour threshold: n.av.

9.1.2 pH-value, undiluted: n.av., pH-value, 1% aqueous solution: n.av. 9.1.3 Boiling point / Boiling - range (°C): ~ 85, Melting point / Melting range (°C): n.av. 9.1.4 Flash point (°C): < 21, closed cup Flammability (EEC A10/A13): 9.1.5 No. 9.1.6 Ignition temperature (°C): n.av.

9.1.7 Autoflammability (EEC A16): None. 9.1.8 Oxidising properties: Nο 9.1.9 Explosion hazard: No. Explosion limits (Vol.%) lower: 9.1.10

2, upper: 12

Vapour pressure: / Vapour density (Air = 1): 9.1.11 41,6 mbar (20°C) / Vapours are heavier than air.

9.1.12 Density (g/ml): ~ 0.9

9.1.13 Solubility (in Water): miscible Soluble in: most organic solvents.

9.1.14 Partition coefficient, n-Octanol / Water: n.av. 9.1.15 Viscosity: n.av. 9.1.16 Solvent content (m %): 60 - 90 n.av. 9.1.17 Thermal decomposition (°C): 9.1.18 Evaporation rate: n.av.

9.2 Other information

# SECTION 10: Stability and reactivity

Reactivity

None.

10.2 **Chemical stability** 

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Keep away from fire, sparks and heated surfaces. Take precautionary measures against static discharges.

10.5 Incompatible materials

Contact with oxidising agents may lead to strong reactions.

10.6 Hazardous decomposition products

No dangerous decomposition products when properly handled.

Page 4 of 5

**Trade Name: Binding Buffer** 

Company / Supplier: CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin Telephone: +49-30-94 89-3500, Date of issue: 30.09.2014 Replaces Data Sheet of: 06.03.2013

# SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

11.1.1 Substances:

n.ap.

11.1.2 **Mixtures** 

Acute Toxicity:

Inhalation: n.av. Ingestion: n.av. Skin Contact: n.av.

Irritation / corrosion (to skin / eye): Causes serious eye irritation.

Sensitisation: n.av. Carcinogenicity: n.av. Mutagenicity: n.av. Teratogenicity: n.av.

Narcotic Effects: Inhalation of solvent-vapours in high concentration causes

narcotic effects.

## 11.1.3 - Practical Experience

11.1.12 n.av.

11.1.13 Practical Experience

Observations relevant for classification:

None

Further Observations:

None.

Classification of the preparation has been done by calculation in accordance with EEC directives.

# SECTION 12: Ecological information

12.1 **Toxicity** 

12.3

According to present knowledge no negative ecological reactions are to be expected.

12.2 Persistence and degradability

The product is biodegradable. Bioaccumulative potential

n.av.

12.4 Mobility in soil

n.av.

12.5 Results of PBT and vPvB assessment

This mixture contains no substances which are assessed to be PBT or vPvB.

12.6 Other adverse effects

12.6.1 COD-Value, mg/g: n.av. 12.6.2 BOD5-Value, mg/g: n.av. 12.6.3 AOX-Remarks: n.ap. 12.6.4 Significant Components: Not relevant Other adverse effects: 12.6.5 None

## SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation: D 10 / R 4 13.1.1 Waste - Code - No.: 07 06 04

The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

In addition comply with the regional authorities.

13.2 **Contaminated Packaging** 

13.2.1 Recommendation: Wash with suitable cleaner. Packaging that cannot be cleaned should be disposed of as

for product

Observe the usual precautionary measures for handling chemicals. 13.2.2 Safe Handling:



Page 5 of 5

**Trade Name: Binding Buffer** 

Company / Supplier: CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin Telephone: +49-30-94 89-3500, Date of issue: 30.09.2014 Replaces Data Sheet of: 06.03.2013

# **SECTION 14: Transport information**

AD	DR .	IMDG	IATA	
	emption to ADR 3.5.1.4 (< 1mL / <	: 1g)		
.1 <u>UN</u>	UN number			
12	219	1219	1219	
.2 <u>UN</u>	UN proper shipping name			
Ul	N 1219 Isopropanol	Isopropanol	Isopropanol	
.3 <u>Tra</u>	Transport hazard class(es)			
3		3	3	
<b>«</b>	3	3	3	
.4 <u>Pa</u>	Packing group			
II		II	II	
.5 <u>En</u>	Environmental hazards			
		No.		
.6 <b>Sp</b>	Special precautions for user			
CI Ha	ransport category: 3 lassification Code: F1 azard - No.: 33 Q: 1 L	F-E; S-D	Packing Instructions (Passenger) 353 Packing Instructions (Cargo) 364	
.7 <b>Tr</b> a	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code			
		None.		

# **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture n.av.
- 15.2 Chemical safety assessment:

None.

# **SECTION 16: Other information**

# Text of R / H phrases mentioned in Section 3

- R 11: Highly flammable.
- R 36: Irritating to eyes.
- R 67: Vapours may cause drowsiness and dizziness.
- H225: Highly flammable liquid and vapour.
- H319: Causes serious eye irritation.
- H336: May cause drowsiness or dizziness.

This datasheet has been compiled in accordance with EU regulation 453/201.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products. Prepared by:



CoSiChem AG, Ernst-Lemmer-Straße 27, D - 35041 Marburg, info@cosichem.de, +49-6421-886563 Receipt of Data: 16.05.2011, inv\_0022\_c

Page 1 of 5

Date of issue: 30.09.2014 Replaces Data Sheet of: 17.05.2011

"\*" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade Name: Pre-wash Buffer

Article No.: n.av. **Preparation No.:** n.av. Registration No.: n.ap.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use: Analytics, Diagnostics

1.3 Details of the supplier of the safety data sheet

Address of the Company / Supplier: 1.3.1

CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin

Telephone: +49-30-94 89-3500, Telefax: +49-30-94 89-3510, E-Mail: info@congen.de

1.3.2 Responsible for the data sheet:

CoSiChem AG, Ernst-Lemmer-Straße 27, D - 35041 Marburg, info@cosichem.de

1.4 **Emergency telephone number** 

> Emergency - Telephone of Company / Undertaking Information Centre Specialising in Symptoms of

> > Poisoning

Telephone: +49-30-94 89-3500 (8:00 - 16:00) Telephone: +44 870 600 6266

# **SECTION 2: Hazards identification**

## Classification of the substance or mixture

Classification and labelling according to Directive 1272/2008/EC:

Acute Tox. 4, H302/H312/H332; Aquatic chronic 3, H412

Classification and labelling according to Directive 1999/45/EC:

Harmful, R20/21/22, dangerous for the environment, R 52/53; R32

2.2 Label elements

Classification according to 1272/2008/EC: Yes.

Applicable Exemptions: Signal word(s): Warning

Component(s): Guanidinthiocyanate

Hazard pictogram(s):

## H - Phrases:

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H332: Harmful if inhaled.

H412: Harmful to aquatic life with long lasting effects.

# P - Phrases:

P273: Avoid release to the environment.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Additional Markings:

EUH032: Contact with acids liberates very toxic gas.

The above mentioned labelling is valid for distribution to industrial user.

2.3 Other hazards

Materials should be tested for resistance.

This mixture contains no substances which are assessed to be PBT or vPvB.

# SECTION 3: Composition/information on ingredients

# **Substances**

**Dangerous Ingredients:** 

3.2 **Mixtures** 

**Chemical Characterisation:** 

Aqueous solution

**Dangerous Ingredients:** 

Symbol CAS - No. Index - No. EC - No. Material m% - range R / H - phrases 615-004-00-3 Xn; GHS07 R 20/21/22-32-52/53 593-84-0 209-812-1 Guanidinthiocvanat 25 - 50% H302 H3012 H332 H412

EUH032

Text of R-/H- phrases: see section 16



Page 2 of 5

Trade Name: Pre-wash Buffer

Company / Supplier: CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin Telephone: +49-30-94 89-3500, Date of issue: 30.09.2014 Replaces Data Sheet of: 17.05.2011

# SECTION 4: First aid measures

4.1 Description of first aid measures

4.1.1 Inhalation:

Move to fresh air in case of accidental inhalation of vapours. Call a physician immediately.

4.1.2 Skin Contact:

> Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician.

4.1.3 **Eye Contact:** 

Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.

4.1.4 Ingestion:

Do not cause vomiting. Rinse mouth out and drink plenty of water afterwards. Summon a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

4.3 Indication of any immediate medical attention and special treatment needed Continue to monitor for pneumonia and pulmonary oedema. Symptomatic treatment.

# SECTION 5: Firefighting measures

Extinguishing media

Suitable Extinguishing Media: 5.1.1

water spray jet, Foam, dry chemicals, CO2.

**Extinguishing Media to Avoid:** 5.1.2

5.2 Special hazards arising from the substance or mixture

In the case of fire, the following product(s) may form: Organic crackproducts and carbon oxides., nitrogenoxides (NOx), Thiocyanates.

5.3 Advice for firefighters

5.3.1 **Special Protective Equipment:** 

Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.

5.3.2 Additional Information:

This material is not combustible; use extinguishing media appropriate for surrounding fire.

## SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

See chapter 8.2.2

Provide sufficient ventilation.

6.2 **Environmental precautions** 

> Do not allow to enter drainage / surface-water / ground-water. Inform responsible authorities in the case of accidental release. Take up with suitable absorbent material.

6.3 Methods and material for containment and cleaning up

Packaging that cannot be cleaned should be disposed of as for product

6.4 Reference to other sections

None.

# SECTION 7: Handling and storage

Precautions for safe handling

7.1.1 **Precautions for Safe Handling:** 

Avoid contact with eyes and skin. Take off contaminated, saturated clothing immediately. Do not inhale dust, gas, vapours, fire -fumes. Do not eat, drink or smoke during work.

7.1.2 Precautions in Case of Fire and Explosion:

No special measures necessary if used correctly.

7.2 Conditions for safe storage, including any incompatibilities

7.2.1 Storage Instructions:

Provide solvent resistant and tight floor. Provide sufficient ventilation.

7.2.2 Store away from:

Incompatible with acids and oxidizing agents.

7.2.3 **Further Information on Storage Conditions:** 

Protect against light.

7.3 Specific end use(s)

Version 4.0

# Safety Data Sheet in Accordance with regulation 453/2010

Page 3 of 5

Trade Name: Pre-wash Buffer

Company / Supplier: CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin Telephone: +49-30-94 89-3500, Date of issue: 30.09.2014 Replaces Data Sheet of: 17.05.2011

# SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Material Limit Value

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Keep container tightly closed. Close container straight after use or if empty.

Application only when sufficient ventilated.

8.2.2 Individual protection measures

8.2.2a **Respiratory Protection:** If ventilation is insufficient, wear respiratory protection(Filter for Isothiocyanates)

8.2.2b **Hand Protection:** Gloves (solvent-resistant)

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts,

abrasion, and the contact time.

8.2.2c Eye Protection: tightly fitting goggles
8.2.2d Skin Protection: Lightly protective clothing
8.2.2e Further Information: Observe wearing time limits:

8.2.3 Environmental exposure controls:

n.av.

# SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

9.1.1 Form: liquid Colour: colourless Odour: characteristic

Odour threshold: n.av.

9.1.2 pH-value, undiluted: n.ap., pH-value, 1% aqueous solution: n.av.
9.1.3 Boiling point / Boiling - range (°C): ~ 100, Melting point / Melting range (°C): n.av.

9.1.4 Flash point (°C): n.ap., closed cup

9.1.5 Flammability (EEC A10/A13): n.ap.
9.1.6 Ignition temperature (°C): n.ap.
9.1.7 Autoflammability (EEC A16): n.ap.
9.1.8 Oxidising properties: None.
9.1.9 Explosion hazard: n.av.

9.1.10 Explosion limits (Vol.%) lower: None., upper: None.

9.1.11 Vapour pressure: / Vapour density (Air = 1): n.av. / n.ap. 9.1.12 Density (g/ml): ~1,1

9.1.13 Solubility (in Water): miscible Soluble in: most organic solvents.

9.1.14 Partition coefficient, n-Octanol / Water: n.av. 9.1.15 Viscosity: n.av. 9.1.16 Solvent content (m %): n.ap. 9.1.17 Thermal decomposition (°C): n.av. 9.1.18 Evaporation rate: n.av.

9.2 Other information

n.av.

# **SECTION 10: Stability and reactivity**

10.1 Reactivity

None.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Contact with acids liberates toxic gases.

10.4 Conditions to avoid

No special measures necessary if used correctly.

10.5 Incompatible materials

Reactions with strong oxidising agents. acids. Iyes.

10.6 Hazardous decomposition products

Thiocyanate

Page 4 of 5

Trade Name: Pre-wash Buffer

Company / Supplier: CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin Telephone: +49-30-94 89-3500, Date of issue: 30.09.2014 Replaces Data Sheet of: 17.05.2011

# SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

11.1.1 Substances:

n.ap.

11.1.2 **Mixtures** 

Acute Toxicity:

Inhalation: n.av.

Ingestion: ATEMIX = 1256

Skin Contact: n.av.

Irritation / corrosion (to skin / eye): Causes skin irritation. Moderate eye irritation. Sensitisation: Allergic reactions and sensitization are possible.

Carcinogenicity: Mutagenicity: n.av. Teratogenicity: n.av. Narcotic Effects: None.

## 11.1.3 - Practical Experience

11.1.12 n.av.

11.1.13 Practical Experience

Observations relevant for classification:

Further Observations:

Frequent or permanent contact to skin may lead to irritation or dermatitis.

Classification of the preparation has been done by calculation in accordance with EEC directives.

# SECTION 12: Ecological information

Toxicity

n.av.

12.2 Persistence and degradability

The product is highly volatile and can be largely eliminated from the water by stripping.

12.3 Bioaccumulative potential

12.4 Mobility in soil

#### 12.5 Results of PBT and vPvB assessment

This mixture contains no substances which are assessed to be PBT or vPvB.

12.6 Other adverse effects

12.6.1 COD-Value, mg/g: n.av. 12.6.2 BOD5-Value, mg/g: n.av. 12.6.3 AOX-Remarks: n.av. 12.6.4 Significant Components: None. 12.6.5 Other adverse effects: None.

## SECTION 13: Disposal considerations

Waste treatment methods 13.1

13.1.1 Recommendation: R 2 / D 10 07 06 99 Waste - Code - No.:

The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

In addition comply with the regional authorities.

13.2 **Contaminated Packaging** 

13.2.1 Recommendation: Wash with suitable cleaner. Packaging that cannot be cleaned should be disposed of as

Observe the usual precautionary measures for handling chemicals. 13.2.2 Safe Handling:

# CONGEN Art. No. F1051

# Safety Data Sheet in Accordance with regulation 453/2010

Page 5 of 5

Trade Name: Pre-wash Buffer

Company / Supplier: CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin Telephone: +49-30-94 89-3500, Date of issue: 30.09.2014 Replaces Data Sheet of: 17.05.2011

# **SECTION 14: Transport information**

	ADR	IMDG	IATA	
	No dangerous goods according to ADR	No dangerous goods according to IMDG	No dangerous goods according to IATA-DGR	
14.1	UN number		•	
14.2	UN proper shipping name	I		
14.3	Transport hazard class(es)			
14.4	Packing group	1		
14.5	Environmental hazards	1	1	
14.6	Special precautions for user	I		
	Transport category: Classification Code: Hazard - No.:		Packing Instructions (Passenger)	
	LQ:		Packing Instructions (Cargo)	
14.7	Transport in bulk according to Annex II	of MAPPOL 73/78 and the IPC Code		
17.7	Transport in bulk according to Aimex in			
		None.		

# SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- 15.2 Chemical safety assessment : None.

# **SECTION 16: Other information**

# Text of R / H phrases mentioned in Section 3

R 20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R 32: Contact with acids liberates very toxic gas.

R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

This datasheet has been compiled in accordance with EU regulation 453/201.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products. Prepared by:



CoŚiChem AG, Ernst-Lemmer-Straße 27, D - 35041 Marburg, info@cosichem.de, +49-6421-886563 Receipt of Data: 28.06.2002, inv 0007 d